

receiving a codestream of compressed image data organized in a plurality of layers, wherein each of the plurality of layers comprises coded data that adds visual value to the image;

selecting one or more of the layers for quantization based on sideband information accompanying the codestream, wherein the sideband information includes information specifying the quantization that is to be performed, wherein the plurality of layers are predefined based on viewing distance so that a first set of one or more layers of the plurality of layers is selected to display an image for a first viewing distance and a second set of one or more layers of the plurality of layers is selected to display an image for the second viewing distance, wherein the first set of one or more layers and the first view distance are different than the second set of one or more layers and the second view distance; and

decompressing non-quantized layers of the codestream.

2. (Original) The method defined in Claim 1 wherein the sideband information is stored in a marker segment of the codestream.
3. (Original) The method defined in Claim 2 wherein the marker segment comprises a comment marker.
4. (Original) The method defined in Claim 3 wherein the comment marker comprises a JPEG 2000 COM marker.

5. (Original) The method defined in Claim 1 wherein selecting the one or more layers is based on meeting a target rate.
6. (Original) The method defined in Claim 1 wherein the plurality of layers are predefined based on resolution so that selecting the one or more layers is based on meeting a target distortion.
7. (Canceled)
8. (Previously Presented) A decoder comprising:
 - a memory to store a distortion characteristic;
 - quantization logic coupled to the memory to quantize a codestream of compressed image data organized in a plurality of layers, wherein each of the plurality of layers comprises coded data that adds visual value to the image, the quantization logic selecting one or more of the plurality of layers for quantization based on sideband information accompanying the codestream, and wherein the sideband information includes information specifying the quantization that is to be performed, wherein the plurality of layers are predefined based on viewing distance so that a first set of one or more layers of the plurality of layers is selected to display an image for a first viewing distance and a second set of one or more layers of the plurality of layers is selected to display an image for the second viewing distance, wherein the first set of one or more layers and the first view distance are different than the second set of one or more layers and the second view distance; and

decoding logic coupled to the quantization logic to decompress non-quantized layers of the codestream.

9. (Original) The decoder defined in Claim 8 wherein the sideband information is stored in a marker segment of the codestream.

10. (Original) The decoder defined in Claim 9 wherein the marker segment comprises a comment marker.

11. (Original) The decoder defined in Claim 10 wherein the comment marker comprises a JPEG 2000 COM marker.

12. (Original) The decoder defined in Claim 6 wherein the quantization logic selects the one or more layers is based on meeting a target rate.

13. (Original) The decoder defined in Claim 6 wherein the plurality of layers are predefined based on resolution so that selecting the one or more layers is based on meeting a target distortion.

14. (Canceled)

15. (Previously Presented) An article of manufacture comprising at least one recordable media storing executable instructions thereon which, when executed by a processing device, cause the processing device to:

receive a codestream of compressed image data organized in a plurality of layers, wherein each of the plurality of plurality of layers comprises coded data that adds visual value to the image;

select one or more of the layers for quantization based on sideband information accompanying the codestream, wherein the sideband information includes information specifying the quantization that is to be performed, wherein the plurality of layers are predefined based on viewing distance so that a first set of one or more layers of the plurality of layers is selected to display an image for a first viewing distance and a second set of one or more layers of the plurality of layers is selected to display an image for the second viewing distance, wherein the first set of one or more layers and the first view distance are different than the second set of one or more layers and the second view distance; and

decompress non-quantized layers of the codestream.

16. (Original) The article of manufacture defined in Claim 15 wherein the sideband information is stored in a marker segment of the codestream.

17. (Original) The article of manufacture defined in Claim 16 wherein the marker segment comprises a comment marker.

18. (Original) The article of manufacture defined in Claim 17 wherein the comment marker comprises a JPEG 2000 COM marker.

19. (Original) The article of manufacture defined in Claim 15 wherein selection of the one or more layers is based on meeting a target rate.

20. (Currently Amended) An apparatus comprising:

means for receiving a codestream of compressed image data organized in a plurality of layers, wherein each of the ~~plurality of~~ plurality of layers comprises coded data that adds visual value to the image;

means for selecting one or more of the layers for quantization based on sideband information accompanying the codestream, wherein the sideband information includes information specifying the quantization that is to be performed, wherein the plurality of layers are predefined based on viewing distance so that a first set of one or more layers of the plurality of layers is selected to display an image for a first viewing distance and a second set of one or more layers of the plurality of layers is selected to display an image for the second viewing distance, wherein the first set of one or more layers and the first view distance are different than the second set of one or more layers and the second view distance; and

means for decompressing non-quantized layers of the codestream.

21. (Previously Presented) The method defined in Claim 1 wherein the sideband information is stored within an arithmetic coder (AC) termination area.

22. (Previously Presented)The method defined in Claim 1 wherein the sideband information is stored near an end of a packer header.
23. (Previously Presented)The method defined in Claim 1 wherein the sideband information is stored after a previous packet and before beginning of a next tile.
24. (Previously Presented)The method defined in Claim 4 further comprising specifying, using one or more COM markers, a number of bytes for each one of resolution and a rate across an entire image.
25. (Previously Presented)The method defined in Claim 4 further comprising specifying using one or more COM markers a relative number of bytes for each additional layer.
26. (Previously Presented)The method of claim 1 wherein the plurality of layers are predefined with respect to a viewing distance, and wherein the plurality of layers are arranged from a highest frequency and lowest resolution to a lowest frequency and highest resolution manner.
27. (Previously Presented)The method of claim 1 wherein the sideband information further includes a summation of bits across an entire image for a particular layer and at least a portion of previous layers.